

# ABSTRACT

5           The invention concerns an aprotic electrolytic composition  
located in the separator and in at least one composite electrode  
containing a powder of an active electrode material, and if necessary an  
electronic conduction additive of an electrochemical generator. The  
electrolytic composition comprises a first polymer matrix consisting of a  
10 polyether and at least a second polymer matrix, macroscopically  
separated, and also at least an alkaline salt as well as a polar aprotic  
solvent. The polymer matrices are capable of being swollen by at least  
one of the polar aprotic solvents. The solvent or mixture of solvents is  
unevenly distributed between the polymer matrices. The invention also  
15 concerns an electrochemical generator comprising a negative electrode  
and positive electrode reversible to alkaline ions and a separator with  
polymer electrolyte, the electrolytic component of which is the  
composition described above. The invention further concerns the  
manufacture in two or three steps of a sub-assembly of an  
20 electrochemical generator by coating an electrode support with a  
composite electrode containing the second matrix, followed by a surface  
coating on the electrode resulting from the preceding step with a  
solution containing the first polymer matrix so as to form the separator  
wholly or partly.

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